Honeywell Docket No. 30-4907 DIV (4780)
Practitioner Docket No. 7210085001-3221000

IN THE CLAIMS

Claims 1-18: Issued as US Patent 6,509,415

Claims 19-21: Restricted Out of Parent Case and now part of US Serial No.: 10/293024

22. A low dielectric constant material, comprising:

a first backbone having a first aromatic moiety comprising a phenyl and a first reactive group;

a second backbone having a second aromatic moiety comprising a phenyl and a second reactive group, wherein the first and second backbones are crosslinked without an exogenous crosslinker via the first and second reactive groups in a crosslinking reaction; and

a cage structure covalently bound to at least one of the first and second backbones, wherein the cage structure comprises at least 10 atoms, and wherein at least one of the first and second reactive groups is ethynyl.

23. The low dielectric constant material of claim 22 wherein the cage structure comprises at least one of an adamantane and a diamantane.

24. (Currently Amended) A layer comprising said low dielectric constant ~~polymer~~ material of claim ~~21~~ 22.

25. Previously Canceled.

26. (Currently Amended) The ~~layer~~ material of claim 23 wherein said cage structure comprises substituted or unsubstituted adamantane or substituted or unsubstituted diamantane.

27. (Currently Amended) A film comprising said low dielectric constant ~~polymer~~ material of claim ~~21~~ 22.

28. The film of claim 27 wherein the thickness of the film is less than 100μm.

29. The film of claim 28 wherein the dielectric constant is less than 3.

30. Previously Canceled.

31. The film of claim 27 wherein said cage structure comprises substituted or unsubstituted adamantane or substituted or unsubstituted diamantane.

32. (Currently Amended) An insulator comprising said low dielectric constant ~~polymer~~ material of claim ~~21~~ 22.

33. Previously Canceled.

34. The insulator of claim 32 wherein said cage structure comprises substituted or unsubstituted adamantane or substituted or unsubstituted diamantane.

35. (Currently Amended) An integrated circuit comprising the ~~layer~~ material of claim 26.

36. An integrated circuit comprising the film of claim 31.

37. An integrated circuit comprising the insulator of claim 34.